

IN THE CLAIMS:

1. (Currently amended) A portable convergent miniaturized spray gun including a handle, said spray gun having a central passage for flowing liquid resin and a concentric passage relative to the central passage for flowing pressurized air, and a nozzle internal of said spray gun for discharging the liquid resin from the central passage, a double concentric tube assembly including an inner tube and an outer tube, the inner tube having an additional central passage in axial alignment with said central passage for receiving resin from said internal nozzle, said inner tube and said outer tube defining an additional concentric passage relative to said central passage in axial alignment with said concentric passage, a fluid tip having a main body (78) which is circular in cross section being attached at the end of said inner tube and having a portion thereof being dimensioned so that its diameter is substantially equal to the inner diameter of said outer tube, a plurality of flats formed on said circular cross section to define a gap between the fluid tip element (70) and said outer tube for metering and directing atomized air into said additional concentric passage (66), said fluid tip having a central bore mounted on the end of said inner tube and in communication with said additional central passage defining a central orifice for discharging the resin flowing from said central passage and said additional central passage, an air cap mounted over said fluid tip and defining with said fluid tip an air nozzle for flowing air into

said resin stream discharging from said central orifice and defining an atomized convergent spray having a low pressure zone, ~~said fluid tip including a circular shaped member disposed in said inner tube abutting the inner surface defining said bore of said of said fluid tip and having flats formed thereon to define gaps therein to allow air from said additional concentric passage to flow through said gaps and mix with the resin to atomize the resin flowing out of said fluid tip central passage~~ and a dry powdered nozzle having angled flow passages for directing dry powder into the low pressure zone of said atomized convergent spray.

2. (Original) A portable convergent miniaturized spray gun as claimed in claim 1 including a sleeve surrounding said double concentric tube assembly and defining a manifold, said dry powdered nozzle including diametrically opposed passages disposed relative to said additional central passage communicating with said manifold for leading dry powder from said diametrically opposed passages to the orifice formed on the end of said dry powdered nozzle and directing said dry powder to the low pressure zone.

3. (Original) A portable convergent miniaturized spray gun as claimed in claim 1 wherein said dry powdered nozzle including diametrically opposed passages disposed relative to said additional central passage for directing said dry powder directly into the low pressure zone.

4. (Original) A portable convergent miniaturized spray gun as claimed in claim 1 wherein said spray gun including a main body, said main body being L-shaped.

5. (Original) A portable convergent miniaturized spray gun as claimed in claim 4 including a receiving box attached to said handle for receiving the dry powder and low pressure air for directing said powder into said diametrically opposed passages.

6. (Previously amended) A portable convergent miniaturized spray gun as claimed in claim 5 including a mixer disposed upstream of said main body, a source of resin and a source of catalyst, a manifold, connection means for interconnecting said manifold with said source of resin and said source of catalyst to said mixer and a hose interconnecting said mixer with said spray gun.

7. (Original) A portable convergent miniaturized spray gun as claimed in claim 6 including a valve operatively connected to said additional central passage for flowing and stopping the flow of said resin.

8. (New): A convergent spray gun including a handle portion having a first central passage for flowing a first constituent and a first concentric passage for flowing pressurized air, and a nozzle internal of said spray gun for discharging the first constituent from said central passage, a double concentric tube assembly having a second central passage in axial alignment with said first central passage for receiving said first constituent from said internal nozzle, a second concentric passage in axial alignment with said first concentric passage, a fluid tip mounted on the end of said second central passage defining an orifice for discharging said first constituent within said spray gun, an air cap in communication with said first concentric passage

mounted over said fluid tip and for flowing air there in for defining an atomized convergent spray having a low pressure zone, and a second nozzle surrounding said air cap having angled flow passages for directing a second constituent into said low pressure zone of said atomized convergent spray.

9. (New): A convergent spray gun as claimed in claim 8 wherein said fluid tip comprises a main body (78) which is circular in cross section being attached at the end of said inner tube and having a portion thereof being dimensioned so that its diameter is substantially equal to the inner diameter of said outer tube, a plurality of flats formed on said circular cross section to define a gap between the fluid tip element (70) and said outer tube for metering and directing atomized air into said additional concentric passage (66), said fluid tip having a central bore for defining said orifice.

10. (New): A spray gun as claimed in claim 8 including a sleeve surrounding said double concentric tube assembly and defining a manifold, said other constituent manifold including diametrically opposed passages disposed relative to said second central passage communicating with said manifold for leading said second constituent from said diametrically opposed passages to the orifice formed on the end of said other constituent nozzle and directing said other low constituent to the low pressure zone.